

INTERNATIONAL SEARCH REPORT

International Application No

JP/JP2004/010092

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F16D3/84 F16H48/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16D F16H B60K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 129 345 A (KRUE WERNER) 12 December 1978 (1978-12-12) figures	1,5,6,10
Y	----- figures	2-4,7-9
X	US 2 875 599 A (GREGORY BENJAMIN F) 3 March 1959 (1959-03-03) figures	1
X	US 2 822 880 A (GREGORY BENJAMIN F) 11 February 1958 (1958-02-11) claims; figures	1,5,6,10
X	US 5 916 055 A (WORMBAECHER HANS) 29 June 1999 (1999-06-29) figure 1	8
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

8 October 2004

Date of mailing of the international search report

20/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Foulger, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/010092

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 510 653 A (STEYR DAIMLER PUCH AG) 2 August 1939 (1939-08-02) figures -----	2-4,7-9
A	AU 630 400 B (JOY MFG CO PTY LTD) 29 October 1992 (1992-10-29) figures -----	1,10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/010092

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4129345	A	12-12-1978	DE 2556244 A1 BR 7607818 A FR 2334516 A1 GB 1553258 A IT 1078570 B JP 52073257 A	23-06-1977 11-10-1977 08-07-1977 26-09-1979 08-05-1985 18-06-1977
US 2875599	A	03-03-1959	US 2822880 A	11-02-1958
US 2822880	A	11-02-1958	US 2875599 A	03-03-1959
US 5916055	A	29-06-1999	FR 2779202 A1	03-12-1999
GB 510653	A	02-08-1939	NONE	
AU 630400	B	29-10-1992	AU 630400 B2 AU 4771990 A	29-10-1992 03-05-1990